

## ABSTRACT OF THE DISCLOSURE

An image processing apparatus for performing at least one of JPEG 2000 encoding and decoding processes, comprising: a JPEG 2000 hardware encoder-decoder which  
5 has a memory for wavelet transform and inverse transform with a specific capacity and performs wavelet transform and inverse transform of image information up to said specific tile size using said memory by only hardware components; an acquirer of tile size information for acquiring a tile size  
10 information of image data to be encoded or decoded; a determiner for determining whether said tile size acquired by said acquirer can be processed using only components constituting said JPEG 2000 hardware encoder-decoder or not; a selector for selecting one of a first process and a  
15 second process based on result of decision by said determiner, the first process being wavelet transform and inverse transform process performed using only components constituting said JPEG 2000 hardware encoder-decoder and the second process being wavelet transform and inverse  
20 transform process performed using components other than components constituting said JPEG 2000 hardware encoder-decoder.